## **BIG SAVING** IS EFFECTED

Liverpool Firm Has Invented Self-Discharging Apparatus for Steam Vessels.

### THE FUEL IS EASILY HANDLED

Bucket-Elevator Principle is Employed and Tests Are Satisfactory-Other Marine News.

(Liverpool Journal of Commerce.) economical manner. In these days of mechanical and engineering progress the painful spectacle of a crowd of grimy, perspiring coal heavers laborlously passing baskets of coal from lighter and coal barge to a steamer which is taking in her bunkers seems rather a survival of the barbarous ages than an ordinary feature of the conduct of British shipping. Nor is it Five-Masted Schooner to Load At Port only the "coal slaves" who suffer. The ship must sail at her specified time and thus it often happens with present tedious methods that coal is shut out, and the vessel sails minus the 100 or 200 tons which she has room for. The removal of these very serious disabilities has long engaged the attention of inventors, but up to the present with out tangible or satisfactory results. There is, however, every prospect of this difficult problem being satisfactorily solved by Messrs, R. and J. Moryacht builders, of Liverpool. existing appliances is effected.

Practically the self-discharger is an veyor runs, and to which, of course, the coal is superincumbent. The conveyor, discarding technical language, register. takes the for mof a belt composed of two parallel chains, connected at intervals by steel rods, crossing the conveyor road at right angles. When set in motion the conveyor carries the coal to the foot of a camel plate, and the Francisco. coal is transferred to a series of skir were stored in a huge bin, representing Portland merchants. the hold of a coal-laden vessel, the motive power to drive conveyor and elevator being suplied from an adjacent crane. As soon as the steam was turn coal to the elevator, and each bucket the purpose of reporting events in conpicked up its load, ascended the trunk, and discharge it down the scute.

Though exact means of measuring consessus of opinion among the experts patch from Tokio. He is charged with the work done was not available, the present was that in 10 minutes at least photographing Japanese fortifications. 20 tons of coal was transferred from the bin. There was not the slightest jamming, thanks to the camel plate, and the big lumps were handled and fied waitresses in a woman's restaurant bucketed with the greatest ease. In at 153 Michigan avenue shricked and fact the coal operated upon was above fled from the levelled revolver of two the average size, and therefore the hold up men, Miss N. E. Sumner,, the success of the trial was all the more cashier, resisted the efforts of a third pronounced. Such an invention as this thief to open the cash register. Only promises to revolutionize the coaling when she had been struck several times of steamers where that operation is and a revolver pressed against her head performed from lighters or barges did the cashier give up. The amount along side. The height of the trunk secured was about \$90. is adjustable so that it can be adopted to ships of various heights of side. Nor are the possibilities of this admirable writer recently, "the generaldimensions invention limited to coaling. For dis- of the ark have been closely followed by charging cargoes of ore or gravel it is cargo steamship builders or deep sea equally applicable, and the shipping and the American great lakes service. public can confidently look to important According to the Bible, the ark was

"My father had been a sufferer from sick headache for the last twenty-five years and never found any relief until he began taking your Cascarets. Since he has begun taking Cascarets he has never had the headache. They have entirely cured him. Cascarets do what you recommend them to do. I will give you the privilege of using his name."

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er Bicken, Weaken or Gripe, Re. Se. Se. Never in bulk. The genuine tablet stamped C C C. ranteed to cure or your money back. Sterling Remedy Co., Chicago or N.Y. 598 NUAL SALE, TEN MILLION BOXES | economical vessel,"

developments in the manipulation such cargoes at no distant date.

HEAVY STORM IS RAGINNG.

Wind Attained Velocity of 72 Miles an Hour Yesterday.

One of the worst storms of the winer prevailed along the northwest const yesterday. The storm centered off Cape Flattery and moved suthwest. creating an unusual disturbance. For a time yesterday the gale howled along effect that the wind was still blowing latest reports last night were to the effect that he wind was still blowing a the rate of 60 miles an hour.

The steamship Oregon, which went down to the lower harbor Tuesday af ternoon, did not leave out until 2 o'clock yesterday afternoon. When she departed a 60-mile gale was blowing. Several big seas washed her One of the most serious problems decks, but she went out without acciwhich ship owners have to face is that dent. The gasoline schooner Della of coaling their steamers in a rapid and started for sea, but the huge waves compelled her to return to port. The steamer Sue H. Elmore likewise made an unsuccessful effort to get out.

Notwithstanding the heavy gale which raged off the river, there was little wind in the inner harbor, and, while the day was disagreeable, it was not stormy by any means in the city.

#### THE LUMBER CARRIERS.

land for Orient.

The barketine Louisiana was towed up the river yesterday to take on a cargo of lumber.

The schooner Zampa, now ready for ea with a cargo of lumber for San Francisco, takes 500,000 feet. The steamer Aurelia has cleared for the Bay city with 400,000 feet. The manifest of the barkenting Gardiner City has not yet been filed.

The Pacific Export Lumber Company has chartered the five-masted schooner ley, the well known firm of launch and Henry K. Hall to load lumber at Port-Their land for China. The Hall is a new patent takes the form of a self dis-schooner, having been built at Port charging barge of vessel, by which it Blakeley by the Hall Bros. last year. is claimed a saving of 50 per cent over This will be her second voyage. She sailed on her maiden trip from Tacoma last September for Sydney, carrying adoption of the bucket-elevator prin- 1,601,641 feet of lumber. She made a ciple. The vessel fitted with it is fitted good run to Australia and returned with a metal road, along which the con from there to Honolulu and is now on the way to this city from the Hawaiian port. The schooner is of 1105 tons net

### Marine Notes.

The steaemship Oregon departed at 2 o'clock yesterday afternoon for San

The transport Dix is due tomorrow or buckets, each capable of holding 100 from San Francisco. She will load pounds. These buckets move in a ver- forage at Portland for the Philippines. tical trunk, and discharge their coal The steamer Prentiss arrived yesterat the highest point of the ascent into day from San Pedro and San Francisco a coal schute, which would in actual with a cargo made up of asphalt, axle practice lead to a bunker hatch. For grease, skid oil and canned goods. The the trials some 50 or 60 tons of coal freight is consigned to Spokane and

### Jack London Arrested.

New York, Feb 3 .- Jack London, the writer who recently went to Japan for between that country and Russia has been arrested and imprisoned at Shimnoseki, according to an American dis-

### Robber Beats Woman.

Chicago, Feb. 3.-While a dozen terri-

"Within the last ten years," says a 480 feet long, 80 feet wide and 48 feet deep. Her tonnage was 11,413, and she had plenty of room for pairs of all the distinct species of animals that are classed by Buffon-244-and she could have accommodated a thousand persons, and then have plenty of room for the storage of supplies. In the seventeenth century Peter Jansen, a Hollender, built a vessel of the exact proportions of the ark, and she was successful, as records of the time show. in making money for her owners. Nosh, the Father of Naval Architecture,' is held in profound respect by naval architects of today, who know how immeasurably the Phoeniclans, Greeks and Romans and all other ship builders fell short of the excellence of the type of the ark as a commodious, safe and

# BUSINESS LOCALS

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sell. Here is where want and wanted come together. ADVERTISE.



First-class meal for 15c; nice cake, coffee pie or doughnuts, Sc. U. S. restaurant, 434 Bond street.

Mme. Dupont's skin food has worldwide reputation. Sold only at Owl and Eagle drug stores. 25 cents a box.

The Morning Astorian will be found for sale at Griffin's book store and at Scully's cigar store, corner Eleventh and Commercial streets.

#### Wood. Wood. Wood.

Cord wood, mill wood, box wood, any kind of wood at lowest prices. Kelly, the transfer man. 'Phone 2211 Black. Barn on Twelfth, opposite opera house.

#### JAPANESE GOODS.

New stock of fancy goods just arrived at Yokohama Bazaar. Call and se the latest novelties from Japan.

For rent, furnished or unfurnished two large, clean rooms for housekeeping; water in kitchen. Over Peterson & Brown's shoe store.

MRS. C. L. HAVENS.

Upper Astoria has a place where you can get a fine glass of beer, as good wines and liquors as you can find any place in the city.

HARRY JONES, Opposite Kopp's Brewery.

#### Piane Tuner.

For good, reliable piano work see our local tuner, Th. Fredrickson. 2071 Bond street. 'Phone Red 2074.

Monarch over pain. Burns, cuts sprains, stings. Instant relief. Dr Thomas' Electric Oil. At any drug

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You will always find the best 15c meal in the city at the Rising Sun restaurant, No. 612 Commercial street.

Men to learn barber trade. eight weeks required; constant practice and expert instruction; positions secured when competent. 'Catalogue mailed free. Moler System College, San Francisco Calif.

A. MONTGOMERY. Roosevelt or Hanna-it all depends on the people. If it is left to the west the president will get the unanimous vote. However, it is the unanimous opinion of good judges that the fine line of hair brushes for sale at from 25 cents to \$3.50 at Hart's drug store is the best ever brought to the city.

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Wanted-Several industrious persons in each state to travel for house established eleven years and with a large capital, to call upon merchants and agents for successful and profitable line. Permanent engagement. Weekly cash salary of \$24 and all traveling expenses and hotel bills advanced in cash each week. Experience not essential. Mention reference and enclose self-addressed envelope. National, Caxton Bldg., Chicago.

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If it is in season you will find it at its best at the celebrated Toke Point oyster house on Eleventh street. Fish, game, shell-fish, choicest meats, pastry coffee, etc., etc., served to the queen's money's worth? taste. Special accommodations for parties. Open all night. Don't miss B. H. TRUMBULL, Commercial Agt, the place, Eleventh street, near Bond.

#### A Popular Scrence. Plumbing looks easy, but no part PAUL B. THOMPSON, F. &. P. A.,

of a house is more important to health

are prepared to do all work in this line in the most scientific and satisfactory manner. We keep the latest improved fittings always in stock for new or repair work. All kinds of tinning, heating and steam-fitting.

and comfort than the plumbing. We

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after a long storm is a feeling of relief when an obstinate, pitiless cold has been driven away by Allen's Lung Balsam. Only people who have been cured of throat-ache and sore lungs by this remedy can quite realize what the feeling is. There is no opium in the Balsam; its good effect is radical and lasting. Take a bottle home today.

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Why not combine all by using the Illinois Central, the up-to-date road, running two trains daily from St. Paul and Minneapolis, and from Omaha, to Chicago. Free reclining chair cars, the famous buffet library smoking cars, all trains vestibuled. In short thoroughly modern throughout. All tickets reading via the Illinois Central will be honored on these trains and no extra fare charged.

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To be tired out from hard work or bodily exercise is natural and rest is the remedy, but there is an exhaustion without physical exertion and a tired, never-rested feeling-a weari-

some serious disorder is threatening the health. One of the chief causes of that "Always-tired, never-rested condition" is impure blood and bad circulation. Unless the body is nourished with rich, pure blood there is lack of nervous force, the muscles become weak, the di-

For overfour years I suffered with general debility, causing a thorough breaking down of my system. My cousin, who had been benefited by S. S. B., told me about it. I tried it and it cured me. I heartily recommend B. S. S. to all who may feel the need of a thoroughly-good blood tonic. Yours truly, MRS. JOSEE A. BRITTAIN.

44 W. Ninth St., Columbia, Tenn. gestion impaired, and general disorder occurs throughout the system. Debility, insomnia, nervousness, indigestion, dyspepsia, loss of appetite, strength and energy, and the hundreds of little

'ailments we often have are due directly to a bad con-dition of the blood and circulation, and the quickest way to get rid of them is by purifying and building up the blood, and for this purpose no remedy equals S. S. S., which contains the best ingredients for cleansing the blood and toning up the system. It is a vegetable blood purifier and tonic combined, that enriches the blood, and through it the entire system is nourished and refreshing sleep comes to the tired, never-rested, body. THE SWIFT SPECIFIC CO., ATLANTA, GA.

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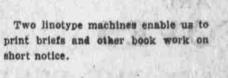
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